

PN - JP60041517 A 19850305
 PD - 1985-03-05
 PR - JP19830148605 19830813
 OPD - 1983-08-13
 TI - MANUFACTURE OF AIR CLEANER ELEMENT
 AB - PURPOSE: To obtain a titled element having excellent resistance to heat, chemicals, and impact as compared with the conventional element by closing a wavy sheet-shaped filter medium hermetically with slit dice while leaving the circumferential end part, and forcing a thermoplastic resin into the clearance formed by the slit dice at the circumferential end part to form an external frame combined with the filter medium. CONSTITUTION: The paper is made by using linter, pulp, etc. as an essential raw material, impregnated with a fixing agent for preventing the fraying, and bent into a wavy form to make a filter medium 16. The filter medium 16 is then put between both metallic molds 18 and 19 for shaping, and an external frame 15 and a retainer 15a combined with the filter medium 16 are molded into a body by injecting PP, etc. into the clearance formed in both metallic molds 18 and 19 through an injection passage 19a at a low injection pressure of about 5kg/cm². In this case, the end surface of the filter medium 16 is preferably bent in the direction opposite to the flow of injection, or toward the metallic mold 18 to facilitate the flow of the resin in the metallic molds 18 and 19.
 IN - KADOYA TERUKAZU
 PA - TOYO ROKI SEIZOU KK
 EC - B29C45/14F
 IC - B01D46/52; B29C45/14; B29K105/20; B29L31/14; F02M35/024

TI - Pressure injection of thermoplastic resin to form outer frame - integrally bonded to filter element, used for mfg. air purifies
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 IC - B01D46/52 ;B29C45/14 ;B29K105/20 ;B29L31/14 ;F02M35/02
 AB - J60041517 Sheet-shaped filter element after being corrugated is placed in divided dies. Main part of the filter element is sealed in the dies, while leaving its periphery. Resin is pressure injected into the cavity of the dies surrounding the periphery of the filter element. Hence, an outer frame integrally bonded to the filter element is obt.. Outer frame may be equipped with a part for setting the filter element in the casing of an air purifier.
 - USE/ADVANTAGE - Useful for mfg. an air purifier to be set esp. in an internal combustion engine. Since the thermosetting resin is pressure injected while clamping the filter element between the moulding dies, the main part of the filter element is not deformed during moulding. Hence, various kinds of resin can be used for moulding the outer frame.(0/8)

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